

157540

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800
 Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date <u>6/24/05</u>	Serial # <u>091849,537</u>	Priority Application Date _____
Your Name <u>Milhauer, B</u>	Examiner # _____	
AU <u>USPTO</u>	Phone <u>202-7830</u>	Room <u>5A30</u>
In what format would you like your results? Paper is the default.		<input checked="" type="radio"/> PAPER <input type="radio"/> DISK <input type="radio"/> EMAIL

If submitting more than one search, please prioritize in order of need.

*Week before
7/4*

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPTO DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs Nonpatent Literature Other _____
 Secondary Refs Foreign Patents _____
 Teaching Refs _____

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 13,16,17, 52-59, 69+70

Body

Please do an updated search.

*Problem: See pages 2+3
Solution: 11, 13+4*

Claims 9/11/05

Staff Use Only

Searcher: <u>Boone</u>	Type of Search: <u>?</u>	Vendors: <u>STN</u>
Searcher Phone: <u>225-41</u>	Structure (#): <u>_____</u>	Dialog: <u>_____</u>
Searcher Location: STIC-EIC2800, JEF-4B68	Bibliographic: <input checked="" type="checkbox"/>	Questel/Orbit: <u>_____</u>
Date Searcher Picked Up: <u>07-05-05</u>	Litigation: <u>_____</u>	Lexis-Nexis: <u>_____</u>
Date Completed: <u>07-05-05</u>	Fulltext: <u>_____</u>	WWW/Internet: <u>_____</u>
Searcher Prep/Rev Time: <u>40</u>	Patent Family: <u>_____</u>	Other: <u>_____</u>
Online Time: <u>240</u>		

Set Items Description

S1 44422 SOLDER?(W)(BALL? ? OR BUMP? ? OR POST? ? OR SPHERE? OR PAD? ?) OR BGA? ? OR BALLGRID? ? OR BALL(W)GRID? ? OR POLYMER(W)BALL? ?

S2 37991 CONTACT(2N)(PAD? ? OR PIN??? OR PLUG?)

S3 5011042 CHIP? ? OR IC? ? OR WAFER? ? OR SEMICONDUCTOR? OR PACKAGE - OR SEMI()CONDUCTOR?

S4 871366 (FIRST OR SECOND OR TOP? ? OR BOTTOM OR UPPER OR LOWER) (2N-) (SURFACE OR SIDE)

S5 76685 (HEAT OR THERMAL OR TEMP?) (3N) (SPREAD???? OR DISSIPAT????-?)

S6 2597 RING(3N)STIF?????

S7 33546 FLIP()CHIP?

S8 3859 CONDUCT?() (PAD???? OR BUMP?)

S9 919 S1 AND S3 AND S2

S10 15 S9 AND (S5 OR S6) AND S4

S11 2 S7 AND S10

S12 2 RD (unique items)

S13 13 S10 NOT S12

S14 13 RD (unique items)

S15 5 S5 AND S6 AND S4

S16 5 S15 NOT S10

S17 5 RD (unique items)

S18 8741569 VIOD? ? OR GAP? ? OR VIA OR VIAS OR VIRTUAL(W)INTERFACE(W-) ARCHITECTURE? OR HOLE? ? OR GROOVE? ? OR CHANNEL? ? OR TRENCH??? OR PATHWAY OR FEEDTHROUGH? FEED(W)THROUGH? ? OR APERTURE OR ORIFICE OR SLIT?

S19 758 S3 AND S18 AND S8

S20 85 S19 AND CONDUCT?() MATERIAL

S21 2 S20 AND S5

S22 26 S19 AND S5

S23 24 S22 NOT (S10 OR S17 OR S21)

S24 24 RD (unique items)

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